PROPOSAL
CHULA VISTA FIRE

MCC7500 CONSOLE PROPOSAL

MOTOROLA SOLUTIONS

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Harry Muns
Director of Operations
447 F Street
Chula Vista, California 91910

RE: Motorola Solutions MCC7500 Console Proposal

Dear Deputy Chief Muns,

Motorola Solutions, Inc. (Motorola Solutions) appreciates the opportunity to provide the Chula Vista Fire quality communications equipment and services. Motorola Solutions' project team has taken great care to propose a solution to address your needs and provide exceptional value.

The proposed solution includes a combination of hardware, software and services. Specifically, this solution provides 4 MCC 7500 Dispatch Console operator positions, 1 Logging Recorder Interface Box and related equipment, as well as the implementation and warranty services needed to support them.

This proposal is subject to the terms and conditions of the existing contract 553982 between County of San Diego and Motorola Solutions, dated June 27, 2016, and shall remain valid for a period of 60 days from the date of this letter. Motorola Solutions would be pleased to address any concerns the City may have regarding the proposal. Any questions can be directed to Andy Grimm, Motorola Representative at 858.864.3660, (agrimm@daywireless.com).

Our goal is to provide Chula Vista Fire with the best products and services available in the communications industry. We thank you for the opportunity to present our proposed solution, and we hope to strengthen our relationship by implementing this project.

Sincerely,

Jerry Burch
Area Sales Manager

MOTOROLA SOLUTIONS, INC.

SECTION 1

SOLUTION OVERVIEW

Motorola's proposed dispatch solution for Chula Vista Fire features our MCC 7500 Dispatch Console, offering IP-based seamless connectivity between Chula Vista's dispatch operators and field personnel.

MCC 7500 Console Configuration for Chula Vista Fire

The proposed solution includes four (4) MCC 7500 Dispatch Consoles and one logging recorder interface box designed to interface with the existing San Diego County Regional Communication System (RCS) and the future Next Genertation RCS. All of the dispatch positions will be located at the City of San Diego Fire's dispatch center. The proposal details the functionality of the following included components.

Chula Vista Fire located at City of San Diego Fire MCC 7500-based dispatch site:

- (4) MCC 7500 Operator Positions, each with the following components:

  - (1) small form factor PC
  - (1) MCC 7500 Voice Processor Modules (VPM)
  - (2) Headset Jacks
  - (1) Headset Base with PTT and 15 Foot Cord
  - (1) Wired Headset
  - (2) Desktop Speakers
  - (1) Dual Pedal Footswitch
  - (1) Dual IRR with license, sound card and speaker

- (1) MCC 7500 1 VPM only Operator Position for Recording only, each with the following components:

  - (1) Standard Certified PC
  - (1) MCC 7500 Voice Processor Modules (VPM)

Each position licensed for the following capabilities:

- MCC 7500 trunking radio operation
- MCC 7500 advanced conventional radio operation
- AES Encryption
- MCC 7500 Over the Ethernet Keying (OTEK)

- (2) Motorola GGM 8000 Gateways

- (2) Site Ethernet LAN Switches

- (1) MKM 7000 Console Alias Manager Small Form Factor Workstation

MCC 7500 Console Operator Positions connect directly to the radio system's IP transport network through the site LAN Switch and Gateway. Audio processing, encryption, and switching intelligence for dispatch is performed within each software-based operator position, without additional centralized electronics. MCC 7500 consoles function as integrated components of the entire radio system, enabling full participation in system level features such as end-to-end encryption and agency partitioning.

Operator position hardware proposed consists of a personal computer, keyboard and mouse, speakers, audio accessories and a VPM. The VPM allows analog devices to be connected to the digital console. The low-profile VPM

can be rack mounted, furniture mounted or placed on the desktop. The MCC 7500 console does not require separate configuration or performance management equipment. The console system is configured and managed by the radio system's configuration manager, fault manager and performance reporting applications to provide the customer with a single point for configuring and managing the entire radio system. Aliases for Radio PTT IDs may be managed both locally and centrally in the same system to provide agencies sharing an ASTRO 25 radio system with the flexibility to meet their alias management needs.

The VPM Only MCC7500 consists of all the licensing as a standard console position, however consists of only a standard certified workstation and VPM and will be utilized for recording purposes only.

GGM8000 Gateway
Designed to provide a clear demarcation point between your existing IP network architecture and ASTRO 25 systems, the GGM 8000 Gateway is a multi-purpose network communications platform, constructed to interconnect devices and networks within ASTRO 25 systems. The need for special protocols, including multicast, are eliminated with static tunnels through your backhaul network. The easy serviceable design allows all internal modules to be replaced without removing the chassis from the rack. Motorola manages the firmware, configurations and applications to ensure the highest levels of system integrity, performance, and information assurance compliance. Dual Gateways have been provided to ensure dispatch functionality is not completely lost in the event of a Gateway failure.

LAN Switch
The site LAN switch provides LAN interfaces for dispatch site equipment and a LAN port for the link to the core site. Through the switch, service technicians can access the system's configuration manager and service the equipment. Dual LAN switches have been provided to ensure dispatch functionality is not completely lost in the event of a LAN switch failure.

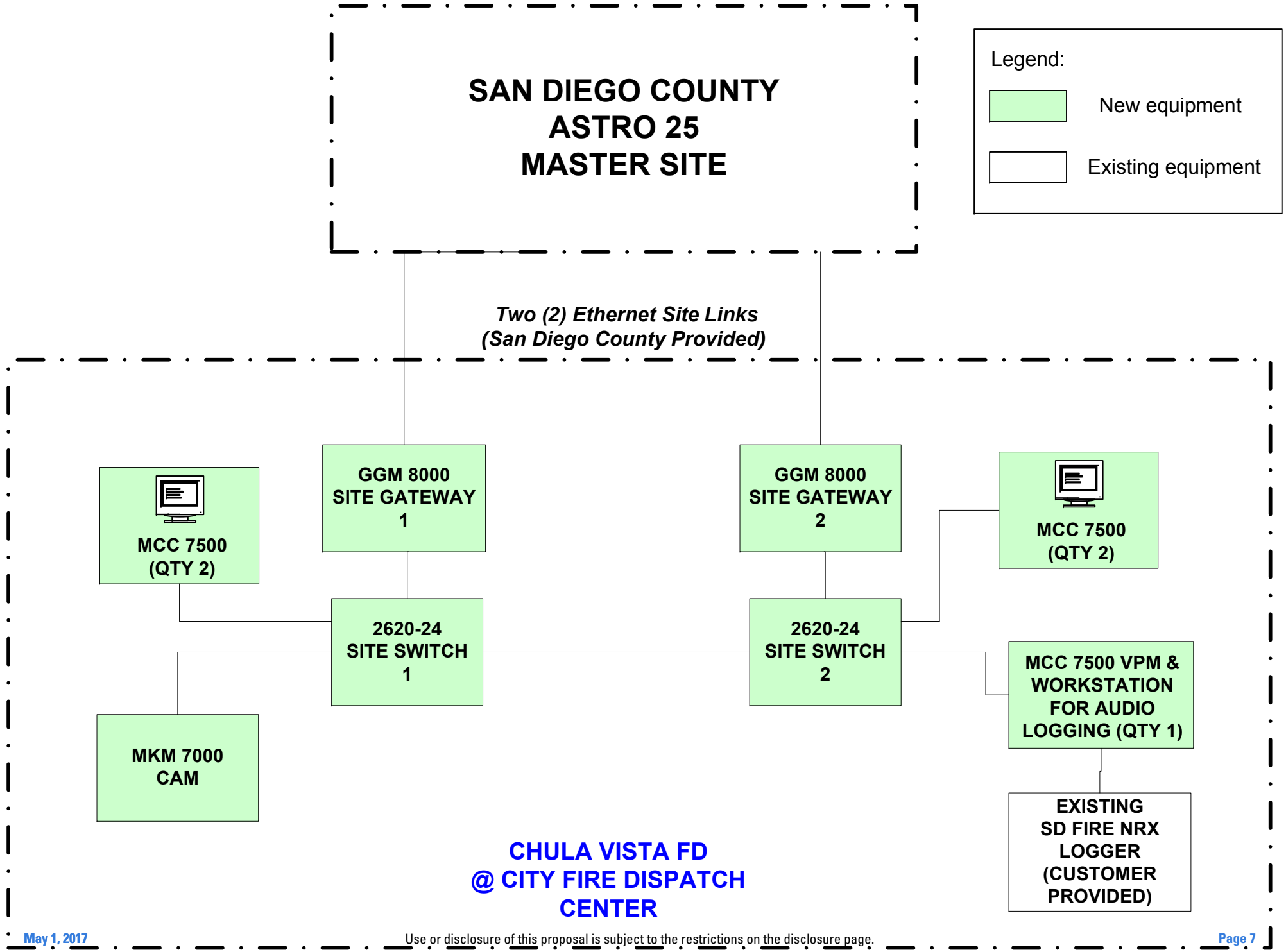
MKM 7000 Console Alias Manager
The Motorola MKM 7000 Console Alias Manager (CAM) manages the radio unit ID aliases that are displayed on MCC 7500 consoles. It enables agencies that are sharing a radio system to make changes to the aliases that are displayed on their dispatch positions and logging recorders (if applicable), without affecting the aliases displayed on the dispatch positions and logging recorders of other agencies on the system.

A typical dispatch console uses many types of aliases to make it easier for dispatchers to do their jobs by providing meaningful, descriptive names instead of numeric ID numbers for different resources on the console. For example, aliases are used for:

- Trunking talkgroups and conventional channels
- Aux I/Os
- Frequencies on multi-frequency conventional channels
- PL codes on conventional channels using PL
- Preconfigured pages
- Radio unit IDs (also called radio PTT IDs)

Most of these aliases are defined when the console is first installed and rarely or never change. But, radio unit IDs can change more often and thus need a way to easily make changes. The MKM 7000 Console Alias Manager satisfies this need.

The CAM will be installed in a downstairs equipment room and can be accessed remotely from dispatch computers via a web browser.


SAN DIEGO COUNTY
ASTRO 25
MASTER SITE
Legend:
New equipment
Existing equipment
Two (2) Ethernet Site Links
(San Diego County Provided)
MCC 7500
(QTY 2)
GGM 8000
SITE GATEWAY
1
GGM 8000
SITE GATEWAY
2
MCC 7500
(QTY 2)
2620-24
SITE SWITCH
1
2620-24
SITE SWITCH
2
MCC 7500 VPM &
WORKSTATION
FOR AUDIO
LOGGING (QTY 1)
MKM 7000
CAM
EXISTING
SD FIRE NRX
LOGGER
(CUSTOMER
PROVIDED)
CHULA VISTA FD
@ CITY FIRE DISPATCH
CENTER

SECTION 2

SYSTEM DESCRIPTION

2.1 MCC 7500 SOLUTIONS OVERVIEW

Motorola's proposed dispatch solution for the Chula Vista Fire is our MCC 7500 Dispatch Console, offering IP-based seamless connectivity between Chula Vista Fire's dispatch operators and field personnel. The MCC 7500 Dispatch Console will provide Chula Vista Fire with a scalable and flexible system architecture, sophisticated network management and security, and an easy migration to future capabilities. See the figure titled "MCC 7500 Dispatch Console."

Figure 1: MCC 7500 Dispatch Console. The proposed Console includes a small form factor PC, headset, speakers, keyboard, mouse, and Voice Processor Module

The proposed solution for Chula Vista Fire includes 4 MCC 7500 Dispatch consoles at Chula Vista Fire Department plus 1 VPM and Standard Certified PC for recording purposes. The following table summarizes the proposed console equipment and peripherals included in our proposal. All licenses necessary for operation have also been included as part of the solution. Motorola is providing the standard MCC7500 platform and has not included customization such as interfaces to broadcast through in-house intercom systems or routing of audio to all dispatch locations.

Motorola has included AES encryption with each of the dispatch positions.

Table 1: Summary of Proposed Equipment

Quantity	Description
	4 Operator Positions
	Personal Computer
	Voice Processor Module
	Headset Jack
	Headsets
	Desktop Speakers
	Footswitch
	Additional Equipment and Software

Quantity	Description
	Console LAN Switch
	Console Site Router
	MKM 7000 Console Alias Manager
	Instant Recall Recorder
	VPM and Standard Certified PC for Logging Audio

2.2 CONSOLE CONNECTIVITY

The proposed MCC 7500 Dispatch consoles will connect into the ASTRO 25 master site at PSC Master Site. A conceptual diagram of the proposed console connectivity has been provided in Figure 1-2.

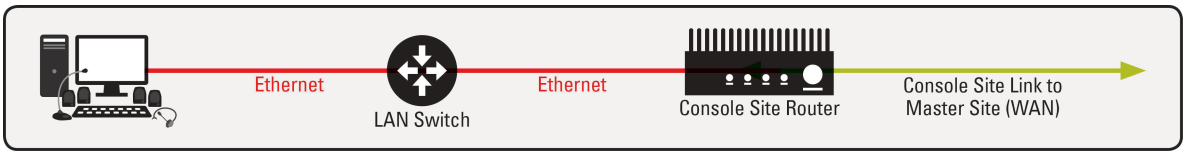


Figure 2: System connectivity for proposed solution.

The solution will rely on Ethernet links provided by San Diego County for backhaul connectivity to the PSC Master Site.

2.3 ELEMENTS OF THE MCC 7500

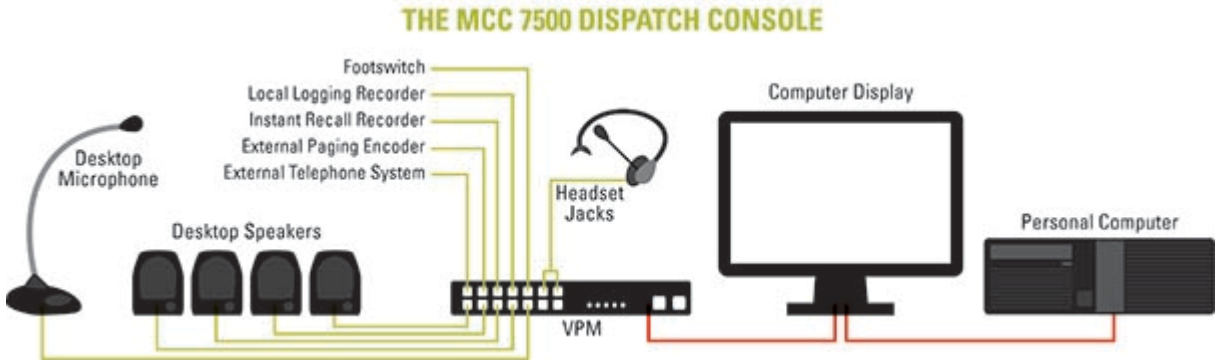


Figure 3: MCC 7500 Dispatch Console Components

As proposed to Chula Vista Fire, each MCC 7500 Dispatch console includes the following elements:

Personal Computer (PC)
The small form factor personal computer included with the console position runs Microsoft Windows 7.

Headset Jack
The dispatch console supports two headset jacks, both push-to-talk (PTT) and non-PTT-enabled for simultaneous use by the dispatch operator and a supervisor. The headset jack contains two volume controls for the separate adjustment of received radio and telephone audio.

Headset
The proposed headset consists of two elements. The headset base includes an audio amplifier, a push-to-talk switch, and a long cord that connects with the dispatch console. The headset top consists of the earpiece and microphone, as well as a short cable that connects to the headset base.

Voice Processor Module (VPM)
The secure VPM provides vocoding and audio processing for the dispatch console, and also serves as the hub for the console's speakers, microphone, footswitch, headset jacks, and recorders.

Footswitch
Each dispatch console includes a dual pedal footswitch that can be configured to control general transmit and monitor functions

Headset Port
The telephone/headset port allows the connection of an external telephone to the dispatch console, allowing the operator to use a single headset to communicate on both the radio system and a telephone system

Desktop Speakers
Two audio speakers have been included with each console position and can be configured to transmit audio from a specific talkgroup or set of talkgroups. Each speaker is a self-contained unit, with individual volume controls and can be placed on a desktop, or mounted on a rack or computer display.

Instant Recall Recorder (IRR) Port
The IRR port enables the connection of a short-term audio recorder, which allows the recording and playback of recent audio received by the console.

2.4 ADDITIONAL EQUIPMENT

Per your request, we have included the following additional items to extend the functionality of the MCC 7500 to meet Chula Vista Fire's needs.

MKM 7000 Console Alias Manager

The MKM 7000 manages the display of radio unit ID aliases on the dispatch console. It enables agencies to manage their radio unit ID aliases independently and autonomously without requiring a network manager client at the dispatch center. The MKM 7000 also supports aliases for radio unit IDs for ASTRO 25 trunking systems, ASTRO 25 conventional systems, MDC 1200 conventional systems, Advanced Securenet conventional systems, and SmartX-enabled SmartZone or SMARTNET systems.

Instant Recall Recorder

The Dual Instant Recall Recorder (IRR) software allows users to record two channels, radio, telephone, radio and telephone conversations, digitally on a personal computer. The system uses an individual PC where the recording files are stored on the PC's hard drive. The Instant Recall Recorder keeps a database of all recordings, which allows for convenient "point and click" search and playback of any recordings. Once the software is installed on your PC, the functions are controlled through a Graphical User Interface (GUI) icon.

In addition, the Instant Retrieval Recorder has numerous special features; such as the ability to attach text documents to recordings, a security system, multiple playback (which allows the user to playback more than one recording at the same time), and real time audio monitor (which allows the user to listen to the last ten minutes of a recording in progress without being required to stop recording to be able to listen).

The Instant Retrieval window allows the user to immediately access the recordings. The Instant Retrieval window initially opens on the newest recordings, but allows access to any recordings on the system. The recording can also be saved to the .WAV file that the user specifies. This is useful if the user wants to save a specific recording to a CD or hard disk.

The City will be responsible to coordinate with the telephone company to provide the 911 telephone audio circuit for each position to be interfaced to the dispatch position's sound card.

2.5 EQUIPMENT LIST

Please see the attached equipment list for the proposed solution.

SUB SYS	BLOCK	LIST ID	LIM	O	APC	QTY	NOMENCLATURE	DESCRIPTION	UNIT LIST (USD)	EXT LIST (USD)
Chula Vista FD	MCC 7500		1	-	443	1	B1905	MCC 7500 ASTRO 25 SOFTWARE	$ 250.00	$ 250.00
Chula Vista FD	MCC 7500		2	-	443	4	B1933	MOTOROLA VOICE PROCESSOR MODULE	$ 11,920.00	$ 47,680.00
Chula Vista FD	MCC 7500		2	a	443	4	CA01642AA	ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	$ 12,000.00	$ 48,000.00
Chula Vista FD	MCC 7500		2	b	443	4	CA01643AA	ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	$ 5,000.00	$ 20,000.00
Chula Vista FD	MCC 7500		2	c	443	4	CA01644AA	ADD: MCC 7500 /MCC 7100 ADV CONVL OPERATION	$ 3,000.00	$ 12,000.00
Chula Vista FD	MCC 7500		2	d	443	4	CA00147AF	ADD: MCC 7500 SECURE OPERATION	$ 3,250.00	$ 13,000.00
Chula Vista FD	MCC 7500		2	e	443	4	CA00182AB	ADD: AES ALGORITHM	$ 750.00	$ 3,000.00
Chula Vista FD	MCC 7500		2	f	443	4	CA01220AA	ADD: OTEK Operation	$ 3,350.00	$ 13,400.00
Chula Vista FD	MCC 7500		2	g	443	4	CA00140AA	ADD: AC LINE CORD, NORTH AMERICAN	$ -	$ -
Chula Vista FD	MCC 7500		3	-	708	4	SMALLCOMPUTER	Small Form Factor Computer	$ 2,950.00	$ 11,800.00
Chula Vista FD	MCC 7500		4	-	877	4	T7448	WINDOWS SUPPLEMENTAL FULL CONFIG	$ 50.00	$ 200.00
Chula Vista FD	MCC 7500		5	-	443	8	B1912	MCC SERIES DESKTOP SPEAKER	$ 450.00	$ 3,600.00
Chula Vista FD	MCC 7500		6	-	443	8	B1913	MCC SERIES HEADSET JACK	$ 200.00	$ 1,600.00
Chula Vista FD	MCC 7500		7	-	706	4	RLN6098	HDST MODULE BASE W/PTT, 15' CBL	$ 210.00	$ 840.00
Chula Vista FD	MCC 7500		8	-	706	4	RMN5078B	SUPRAPLUS NC SINGLE MUFF HEADSET	$ 149.00	$ 596.00
Chula Vista FD	MCC 7500		9	-	708	4	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH FOR USE WITH MOTOROLA MCC 7500 DISP	$ 290.00	$ 1,160.00
Chula Vista FD	MCC 7500		10	-	708	4	T7885	MCAFEE WINDOWS AV CLIENT	$ 165.00	$ 660.00
Chula Vista FD	MCC 7500		11	-	229	4	DDN2089	DUAL IRR SW USB HASP WITH LICENSE (V47)	$ 2,648.00	$ 10,592.00
Chula Vista FD	MCC 7500		12	-	229	4	DDN2134	SOUND BLASTER AUDIGY FX PCIE SOUND CARD	$ 75.00	$ 300.00
Chula Vista FD	MCC 7500		13	-	708	4	CDN6673	CREATIVE LABS INSPIRE A60	$ 46.00	$ 184.00
Chula Vista FD	Logging		14	-	443	1	B1933	MOTOROLA VOICE PROCESSOR MODULE	$ 11,920.00	$ 11,920.00
Chula Vista FD	Logging		14	a	443	1	CA01642AA	ADD: MCC 7500 BASIC CONSOLE FUNCTIONALITY SOFTWARE LICENSE	$ 12,000.00	$ 12,000.00
Chula Vista FD	Logging		14	b	443	1	CA01643AA	ADD: MCC 7500 / MCC 7100 TRUNKING OPERATION	$ 5,000.00	$ 5,000.00
Chula Vista FD	Logging		14	c	443	1	CA01644AA	ADD: MCC 7500 /MCC 7100 ADV CONVL OPERATION	$ 3,000.00	$ 3,000.00
Chula Vista FD	Logging		14	d	443	1	CA00147AF	ADD: MCC 7500 SECURE OPERATION	$ 3,250.00	$ 3,250.00
Chula Vista FD	Logging		14	e	443	1	CA00182AB	ADD: AES ALGORITHM	$ 750.00	$ 750.00
Chula Vista FD	Logging		14	f	443	1	CA01220AA	ADD: OTEK Operation	$ 3,350.00	$ 3,350.00
Chula Vista FD	Logging		14	g	443	1	CA00140AA	ADD: AC LINE CORD, NORTH AMERICAN	$ -	$ -
Chula Vista FD	Logging		15	-	708	1	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)	$ 2,950.00	$ 2,950.00
Chula Vista FD	Logging		16	-	877	1	T7448	WINDOWS SUPPLEMENTAL FULL CONFIG	$ 50.00	$ 50.00
Chula Vista FD	Logging		17	-	708	1	T7885	MCAFEE WINDOWS AV CLIENT	$ 165.00	$ 165.00
Chula Vista FD	SWITCH		18	-	147	2	CLN1856	2620-24 ETHERNET SWITCH	$ 2,250.00	$ 4,500.00
Chula Vista FD	ROUTER		19	-	147	2	SQM01SUM0205	GGM 8000 GATEWAY	$ 4,200.00	$ 8,400.00
Chula Vista FD	ROUTER		19	a	147	2	CA01616AA	ADD: AC POWER	$ -	$ -
Chula Vista FD	CAM		20	-	443	1	BVN1013	MKM 7000 Console Alias Manager Software	$ 250.00	$ 250.00
Chula Vista FD	CAM		21	-	708	1	SMALLCOMPUTER	Small Form Factor Computer	$ 2,950.00	$ 2,950.00
Chula Vista FD	CAM		22	-	708	1	DSTG191	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH	$ 1,398.00	$ 1,398.00
Chula Vista FD	CAM		23	-	877	1	T7448	WINDOWS SUPPLEMENTAL FULL CONFIG	$ 50.00	$ 50.00
Chula Vista FD	CAM		24	-	708	1	T7885	MCAFEE WINDOWS AV CLIENT	$ 165.00	$ 165.00
Chula Vista FD	RACK		25	-	207	2	DSTSJ100BT	SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN	$ 118.00	$ 236.00
Chula Vista FD	RACK		26	-	207	1	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	$ 85.00	$ 85.00
									Total	$ 249,331.00

SECTION 3

IMPLEMENTATION PLAN

3.1 STATEMENT OF WORK

Motorola will install and configure the proposed equipment. The following table describes the tasks involved with installation and configuration.

Table 2: Project Tasks and Responsibilities

Tasks	Motorola Solutions	Chula Vista Fire
Contract Finalization and Team Creation		
Execute contract and distribute contract documents.	☑	☑
Assign a Project Manager as a single point of contact.	☑	☑
Assign resources.	☑	☑
Schedule project kickoff meeting.	☑	☑
Deliverable: Signed contract, defined project team, and scheduled project kickoff meeting.		
Project Administration		
Ensure that project team members attend all meetings relevant to their role on the project.	☑	☑
Record and distribute project status meeting minutes.	☑	☐
Maintain responsibility for third-party services contracted by Motorola Solutions.	☑	☐
Complete assigned project tasks according to the project schedule.	☑	☑
Submit project milestone completion documents.	☑	☐
Upon completion of tasks, approve project milestone completion documents.	☐	☑
Conduct all project work Monday thru Friday, 7:30 a.m. to 5:00 p.m.	☑	☐
Deliverable: Completed and approved project milestones throughout the project.		
Project Kickoff		
Introduce team, review roles, and decision authority.	☑	☑
Present project scope and objectives.	☑	☐
Review SOW responsibilities and project schedule.	☑	☑
Schedule Design Review.	☑	☑
Deliverable: Completed project kickoff and scheduled Design Review.		
Design Review		
Present the system design and operational requirements for the solution.	☑	☐
Present installation plan.	☑	☐
Present preliminary cutover plan and methods to document final cutover process.	☑	☐

Tasks	Motorola Solutions	Chula Vista Fire
Site Access		
Provide site owners/managers with written notice to provide entry to sites identified in the project design documentation.	☐	☑
Obtain site licensing and permitting, including site lease/ownership, zoning, permits, regulatory approvals, easements, power, and telco connections.	☐	☑
Deliverable: Information and permitting requirements completed at each site.		
General Facility Improvements		
Provide adequate HVAC, grounding, lighting, cable routing, and surge protection based upon Motorola's Standards and Guidelines for Communication Sites (R56)	☐	☑
Provide obstruction-free area for the cable run between the demarcation point and system equipment.	☐	☑
Provide structure penetrations (wall or roof) for transmission equipment (e.g. antennas, microwave radios etc.).	☐	☑
Transport removed site equipment to a location designated by Customer and within Customer's jurisdiction.	☑	☑
Deliverable: Sites meet physical requirements for equipment installation.		
Equipment Order and Manufactoring		
Create equipment order and reconcile to contract.	☑	☐
Manufacture Motorola Solutions-provided equipment necessary for system based on equipment order.	☑	☐
Deliverable: Equipment procured and ready for shipment.		
System Staging		
Provide information if available on existing system interfaces, room layouts, or other information necessary for the assembly to meet field conditions.	☐	☑
Set up and rack the solution equipment on a site-by-site basis, as it will be configured in the field at each of the sites.	☑	☐
Cut and label the cables with to/from information to specify interconnection for field installation and future servicing needs.	☑	☐
Complete the cabling/connecting of the subsystems to each other ("connectorization" of the subsystems).	☑	☐
Assemble required subsystems to assure system functionality.	☑	☐
Power up, load application parameters, program, and test all staged equipment.	☑	☐
Confirm system configuration and software compatibility with the existing system.	☑	☐
Inventory the equipment with serial numbers and installation references.	☑	☐
Conduct site and system level testing.	☑	☐
Deliverable: System staged and ready for shipment.		
Equipment Shipment and Storage		
Provide secure location for solution equipment .	☐	☑

Tasks	Motorola Solutions	Chula Vista Fire
Receive solution equipment.	☐	☑
Inventory solution equipment.	☑	☐
Deliverable: Solution equipment received and ready for installation		
General Installation		
Deliver solution equipment to installation location.	☑	☐
Coordinate receipt of and inventory solution equipment with designated contact.	☑	☐
Install of all proposed fixed equipment as outlined in the System Description based upon the agreed-upon floor plans, connecting audio, control, and radio transmission cables to connect equipment to the power panels or receptacles, and audio/control line connection points. Installation performed in accordance with R56 standards and state/local codes.	☑	☐
Install and terminate all network cables between site routers and network demarcation points, including microwave, leased lines, and Ethernet.	☑	☐
Ensure that Type 1 and Type 2 AC suppression is installed to protect installed equipment.	☐	☑
Connect installed equipment to the provided ground system.	☑	☐
Perform preliminary audit of installed equipment to ensure compliance with requirements and R56 standards.	☑	☐
Note any required changes to the installation for inclusion in the "as-built" system documentation.	☑	☐
Remove, transport, and dispose of old equipment.	☑	☑
Deliverable: Equipment installed.		
Console Installation and Configuration		
Identify circuits for connection to console and a demarcation point located within 25 feet of the console interface.	☐	☑
Connect console to circuit demarcation points.	☑	☐
Install PC workstation w/ keyboard and mouse, and monitor.	☑	☐
Install a Voice Processor Module (VPM) and purchased peripheral console equipment in accordance with R56 standards and state/local codes.	☑	☐
Develop templates for console programming.	☑	☐
Perform console programming and configuration.	☑	☐
Deliverable: Console equipment installation completed.		
Logging Audio		
Supply MCC VPM for logging analog audio output	☑	☐
Interface analog audio from VPM to Motorola supplied demarcation punchblock.	☑	☐
Interface dispatch position analog audio from dispatch VPM to Motorola supplied demarcation punchblock	☑	☐
Deliverable: Analog logging audio interface to demarcation punchblock completed.		

Tasks	Motorola Solutions	Chula Vista Fire
Develop Console Dispatch Profiles		
Develop Dispatch Profiles with City input	☑	☑
Participate in a meeting to finalize any changes to dispatch profiles	☑	☑
Review and approve dispatch profiles	☐	☑
Program approved dispatch profiles into console.	☑	☑
Deliverable: Dispatch profiles completed and approved by Customer.		
R56 Site Audit		
Perform R56 site-installation quality-audits, verifying proper physical installation and operational configurations.	☑	☐
Create site evaluation report to verify site meets or exceeds requirements, as defined in Motorola's R56 Standards and Guidelines for Communication Sites.	☑	☐
Deliverable: R56 Standards and Guidelines for Communication Sites audits completed successfully.		
Solution Optimization		
Verify that all equipment is operating properly and that all electrical and signal levels are set accurately.	☑	☐
Verify that all audio and data levels are at factory settings.	☑	☐
Verify communication interfaces between devices for proper operation.	☑	☐
Ensure that functionality meets manufacturers' specifications and complies with the final configuration established during design review or system staging.	☑	☐
Deliverable: Completion of System Optimization.		
Functional Acceptance Testing		
Verify the operational functionality and features of the solution supplied by Motorola Solutions, as contracted.	☑	☐
Witness the functional testing.	☐	☑
Document all issues that arise during the acceptance tests.	☑	☐
If any major task for the system as contractually described fails during the Customer acceptance testing or beneficial use, repeat that particular task after Motorola determines that corrective action has been taken.	☑	☐
Resolve any minor task failures before Final System Acceptance.	☑	☐
Document the results of the acceptance tests and present for review.	☑	☐
Review and approve final acceptance test results.	☐	☑
Deliverable: Completion of functional testing and approval by Customer.		
Cutover		
Finalize Cutover Plan.	☑	☑
Provide Motorola Solutions with user radio information for input into the system database and activation, as required.	☐	☑

Tasks	Motorola Solutions	Chula Vista Fire
Conduct cutover meeting with relevant personnel to address both how to mitigate technical and communication problem impacts to the users during cutover and during the general operation of the system.	☑	☐
Notify the personnel affected by the cutover of the date and time planned for cutover.	☐	☑
Provide ongoing communication with users regarding the project and schedule.	☑	☑
Resolve punchlist items, documented during the Acceptance Testing phase, in order to meet all the criteria for final system acceptance.	☑	☐
Assist Motorola with resolution of identified punchlist items by providing support, such as access to the sites, equipment and system, and approval of the resolved punchlist items.	☐	☑
Deliverable: Migration to new system completed, and punchlist items resolved.		
Transition to Warranty		
Review the items necessary for transitioning the project to warranty support and service.	☑	☐
Provide a Customer Support Plan detailing the warranty support associated with the contract equipment.	☑	☐
Deliverable: Service information delivered and approved by Customer.		
Finalize Documentation and System Acceptance		
Provide manufacturer's installation material, part list and other related material to Customer upon project completion.	☑	☐
Provide an electronic as-built system manual on CD or other Customer preferred electronic media. The documentation will include the following: • Site Block Diagrams. • Site Equipment Rack Configurations. • Functional Acceptance Test Plan Test Sheets and Results. • Equipment Inventory List. • Console Programming Template (where applicable). • Technical Service Manuals (where applicable). Drawings will be delivered in Adobe PDF format.	☑	☐
Receive and approve documentation.	☐	☑
Execute Final Project Acceptance.	☑	☑
Deliverable: All required documents are provided and approved. Final Project Acceptance.		

3.2 PROJECT SCHEDULE

The estimated time for completion of the project is 5 months from Project Kickoff through Final Project Acceptance.

3.3 ACCEPTANCE TEST PLAN

System Acceptance of the proposed solution will occur upon successful completion of a Functional Acceptance Test Plan (FATP), which will test the features, functions, and failure modes for the installed equipment in order to verify that the solution operates according to its design. This plan will validate that Chula Vista Fire's solution will operate according to its design, and increase the efficiency and accuracy of the final installation activities. A detailed FATP will be developed and finalized during the Design Review.

SECTION 4

LIFECYCLE SUPPORT SERVICES

Motorola will warrant and provide additional above-warranty services for the proposed equipment in accordance with the warranty and service provisions of the existing contract #553982 between the County of San Diego and Motorola as stated below:

15.2.3.(iii) The Warranty Period for consoles purchased under this Agreement shall commence upon Acceptance of the console and shall continue for a period of three (3) years or until the expiration of the Warranty Period for Phases 1 and 2, as specified in Section 15.2.3(a)(i) above, whichever is later.

SECTION 5

PRICING

The following table provides a pricing breakdown for the proposed equipment and services.

5.1 PRICING FOR CHULA VISTA FIRE MCC7500 CONSOLE PROJECT

Pricing includes shipping / freight.

MCC7500 Console MIGRATION	Price
Equipment at List Price	$249,331
19% Contract Discount	-$47,373
Incentive Discount for Console Orders prior to December 31, 2018; additional 20% off discounted amount	-$40,392
Equipment Subtotal	$161,566
Tax on equipment 8.25%	$13,330
Equipment with Tax Subtotal	$174,896
Services	$97,695
TOTAL SALE PRICE INCLUDING TAX	$272,591

5.1 PAYMENT MILESTONES:

Equipment Price plus Tax: Upon Shipment of Equipment
Services Price: Upon Completion of Project

SECTION 6

CONTRACTUAL DOCUMENTATION

Motorola proposes to include the equipment and services in the proposed solution per the terms and conditions of the existing contract #553982 between the County of San Diego and Motorola, dated June 27, 2016.